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DATE _____

PERIOD _____

PRE-ALGEBRA - ACCELERATED
CHAPTER 8.3 PROPORTIONS AND EQUATIONS CHALLENGE

Solve the proportion and then find x.

① $\frac{1}{4} = \frac{6}{x}$

② $\frac{16}{x} = \frac{12}{9}$

③ $\frac{30}{4x} = \frac{10}{24}$

④ $\frac{5}{15} = \frac{x}{x+8}$

⑤ $\frac{x}{12-x} = \frac{10}{30}$

⑥ $\frac{16}{8} = \frac{21-x}{x}$

⑦ $\frac{5}{x+2} = \frac{4}{x}$

⑧ $\frac{3x+3}{3} = \frac{7x+1}{5}$

⑨ $\frac{18(3x-1)}{5x} = \frac{3}{5}$

⑩ $\frac{-6(x-2)}{4} = \frac{-2x}{9}$

